WHAT IS CLAIMED IS:

- 1. An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:
 - a photodetector;
 - a transistor;
- a charge to voltage conversion region coupled to said photodetector and connected to the input of said transistor; and
- a capacitor connected in parallel with the charge to voltage conversion region wherein the capacitor is designed to have a low voltage coefficient.
- 2. The device in claim 1, wherein said capacitor provides a capacitance independently of a voltage on said charge to voltage conversion node.
- 3. The device in claim 1, wherein said capacitor comprises a polysilicon to polysilicon double plate capacitor.
- 4. The device in claim 1, wherein said capacitor comprises a polysilicon to metal interconnect double plate capacitor.
- 5. The device in claim 1, wherein said capacitor comprises a metal interconnect to metal interconnect double plate capacitor.
- 6. An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:
 - a photodetector;
 - a transistor;
- said photodetector also operating as a charge to voltage conversion region connected to the input of said transistor; and

a capacitor connected in parallel with photodetector wherein the capacitor is designed to have a low voltage coefficient.

- 7. The device in claim 6, wherein said capacitor provides a capacitance independently of a voltage on said charge to voltage conversion node.
- 8. The device in claim 6, wherein said capacitor comprises a polysilicon to polysilicon double plate capacitor.
- 9. The device in claim 6, wherein said capacitor comprises a polysilicon to metal interconnect double plate capacitor.
- 10. The device in claim 6, wherein said capacitor comprises a metal interconnect to metal interconnect double plate capacitor.
- 11. An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:
 - a photodetector;
 - a transistor;
- a charge to voltage conversion region coupled to said photodetector and connected to the input of said transistor; and
- wherein said transistor is configured to operate as a common source amplifier.
- 12. An active pixel image sensor comprised of a plurality of pixels, at least one pixel comprising:
 - a photodetector;
 - a transistor;
- a charge to voltage conversion region coupled to said photodetector and connected to the input of said transistor;

wherein said transistor is configured to operate as a common source amplifier; and

a capacitor connected in parallel with the charge to voltage conversion region wherein the capacitor is designed to have a low voltage coefficient.